

# Figure 1A

GGC	ACGA	GGGG	GCGG	cggc	TGCG	GGCG	CAGA	GCGG	M AG A	Q TG C	R AG C		G TT G	A GG G	T CC A	CC C	L TG C	C TG I	GC.	10 67
L CTG	L CTG	L CTG	A GCG	A GCG	A GCG	V GTC	CCC	T ACG		CCC	A GCG	CCC	A GCT	P CCG	T ACG	A GCG	T ACC	S TCG	A GCT	30 127
P	V	K	P	G	p	A	L	S	Y	P	Q	E	E	A	T	L	N	E	M	50
CCA	GTC	AAG	CCC	GGC	CCG	GCT	CTC	AGC	TAC	CCG	CAG	GAG	GAG	GCC	ACC	CTC	AAT	GAG	ATG	187
F	R	E	V	E	E	L	M	E	D	T	Q	H	K	L	R	S	A	V	E	70
TTC	CGC	GAG	GTT	GAG	GAA	CTG	ATG	GAG	GAC	ACG	CAG	CAC	AAA	TTG	CGC	AGC	GCG	GTG	GAA	247
E	M	E	a		E	A	A	A	K	A	S	S	E	V	n	L	A	n	L	90
GAG	ATG	GAG	gca		GAA	GCT	GCT	GCT	AAA	GCA	TCA	TCA	GAA	GTG	aac	CTG	GCA	Aac	TTA	307
P	P	S	Y	H	N	E	T	N	T	D	T	N	V	G	n	N	T	I	H	110
CCT	CCC	AGC	TAT	CAC	AAT	GAG	ACC	AAC	ACA	GAC	ACG	AAC	GTT	GGA	aat	AAT	ACC	ATC	CAT	367
V	H	R	E	I	H	K	I	T	N	N	Q	T	G	Q	M	V	F	S	E	130
GTG	CAC	CGA	GAA	ATT	CAC	AAG	ATA	ACC	AAC	AAC	CAG	ACT	GGA	CAA	ATG	GTC	TTT	TCA	GAG	427
T	V	I	T	S	V	G	D	E	E	G	R	R	S	H	E	C	I	I	D	150
ACA	GTT	ATC	ACA		GTG	GGA	GAC	GAA	GAA	GGC	AGA	AGG	AGC	CAC	GAG	TGC	ATC	ATC	GAC	487
E	D	C	G	P	S	M	Y	C	Q	F	A	S	F	Q	Y	T	C	Q	P	170
GAG	GAC	TGT	GGG		AGC	ATG	TAC	TGC	CAG	TTT	GCC	AGC	TTC	CAG	TAC	ACC	TGC	CAG	CCA	547
C	R	G	Q	R	M	L	C	T	R	D	S	E	C	C	G	D	Q	L	C	190
TGC	CGG	GGC	CAG	AGG	ATG	CTC	TGC	ACC	CGC	GAC	AGT	GAG	TGC	TGT	GGA	GAC	CAG	CTG	TGT	607
V	W	G	H	C	T	K	M	A	T	R	G	S	N	G	T	I		D	N	210
GTC	TGG	GGT	CAC	TGC	ACC	AAA	ATG	GCC	ACC	AGG	GGC	AGC	AAT	GGG	ACC	ATC		GAC	AAC	667
Q	R	D	C	Q	P	G	L	C	C	A	F	Q	R	G	L	L	F	P	V	230
CAG	AGG	GAC	TGC	CAG	CCG	GGG	CTG	TGC	TGT	GCC	TTC	CAG	AGA	GGC	CTG	CTG	TTC	CCT	GTG	727
C	T	P	L	P	V	E	G	E	L	C	H	D	P	A	S	R	L	L	D	250
TGC	ACA	CCC	CTG	CCC	GTG	GAG	GGC	GAG	CTT	TGC	CAT	GAC	CCC	GCC	AGC	CGG	CTT	CTG	GAC	787
L	I	T	w	E	L	E	P	D	G	A	L	D	R	C	P	C	A	S	G	270
CTC	ATC	ACC	TGG	GAG	CTA	GAG	CCT	GAT	GGA	GCC	TTG	GAC	CGA	TGC	CCT	TGT	GCC	AGT	GGC	847
L	L	C	Q	P	H	S	H	S	L	V	Y	V	C	K	P	T	F	V	G	290
CTC	CTC	TGC	CAG	CCC	CAC	AGC	CAC	AGC	CTG	GTG	TAT	GTG	TGC	AAG	CCG	ACC	TTC	GTG	GGG	907
			~							P CCC										310 967
G GGC		F TTC		E GAG	E GAG	V GTG		Q CAG	E GAG	L CTG			L CTG		R AGG	S AGC	L CTG	T ACT	E GAA	330 1027
E GAG		A GCG		L AGG					A GCC	A GCC	A GCT				G GGA	R AGG	E GAA	E GAG	I ATT	350 1087
* TAG												*								351 1090

### Figure 1B

ATCTGGACCACCCTCCCCCCCCCCCCCCCCCCCCCCCCC	
ATCTGGACCAGGCTGTGGGTAGATGTGCAATAGAAATAGCTAATTTATTT	G 1169
ACCAGGCTTCTTCCTACATCTTCTTCCCAGTAAGTTTCCCCTCTGGCTTGACAGCATGAGGTGTTGTGCATTTGTTCAC	3 1248
$\tt CTCCCCAGGCTGTTCTCCAGGCTTCACAGTCTGGTGCTTGGGAGAGTCAGGCAGG$	
CACCCCTGTCCAGATTATTGGCTGCTTTGCCTCTACCAGTTGGCAGACAGCCGTTTGTTCTACATGGCTTTGATAATTG	
TTTGAGGGGAGAGATGGAAACAATGTGGAGTCTCCCTCTGATTGGTTTTGGGGAAATGTGGAGAAGAGTGCCCTGCTT	1485
TGCAAACATCAACCTGGCAAAAATGCAACAAATGAATTTTCCACGCAGTTCTTTCCATGGGCATAGGTAAGCTGTGCCT	
${\tt TCAGCTGTTGCAGATGAAATGTTCTGTTCACCCTGCATTACATGTGTTTATTCATCCAGCAGTGTTGCTCAGCTCCTACCTCCTACCTCGCTGCTGCTCAGCTCCTACCTCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT$	1643
$\tt CTCTGTGCCAGGGCAGCATTTTCATATCCAAGATCAATTCCCTCTCTCAGCACAGCCTGGGGAGGGGGTCATTGTTCTCTCTC$	1722
$\tt CTCGTCCATCAGGGGATTTCAGAGGCTCAGAGACTGCAAGCTGCTTGCCCAAGTCACAGCTAGTGAAGACCAGAGCAGCAGCTAGTGAAGACCAGAGCAGCAGAGAGCAGAGCAGAGCAGAGCAGAGCAGAGAGCAGAGAGCAGAGAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAAGA$	1801
${\tt TTTCATCTGGTTGTGACTCTAAGCTCAGTGCTCTCTCCACTACCCCACACCAGCCTTGGTGCCACCAAAAGTGCTCCCCCCACACCACCACCACCACCACCACCACACCACCA$	1880
${\tt AAAAGGAAGGAATTTTCTTTTGAGGCATGCACATCTGGAATTAAGGTCAAACTAATTCTCACATCCCTCTA}$	1959
${\tt AAAGTAAACTACTGTTAGGAACAGCAGTGTTCTCACAGTGTGGGGGCAGCCGTCCTTCTAATGAAGACAATGATATTGACCAAGTAAACTACTAATGAAGACAATGATATTGACCAAGTAAACTAACT$	2038
${f ACTGTCCCTCTTTGGCAGTTGCATTAGTAACTTTGAAAGGTATATGACTGAGCGTAGCATACAGGTTAACCTGCAGAAA}$	2117
CAGTACTTAGGTAATTGTAGGGCGAGGATTATAAATGAAATTGCAAAATCACTTAGCAGCAACTGAAGACAATTATCA	2196
ACCACGTGGAGAAAATCAAACCGAGCAGGGCTGTGTGAAACATGGTTGTAATATGCGACTGCGAACACTGAACTCTACG	2275
CCACTCCACAAATGATGTTTTCAGGTGTCATGGACTGTTGCCACCATGTATTCATCCAGAGTTCTTAAAGTTTAAAGTT	2354
GCACATGATTGTATAAGCATGCTTTCTTTGAGTTTTAAATTATGTATAAACATAAGTTGCATTTAGAAATCAAGCATAA	2433
ATCACTTCAACTGCTAAAAAAAAAAAAAAAAAAAAAAAA	2479

GAATTCGGCACGAGAGACGACCTCCTTCCTTCCTTCCTTC
GAATTCGGCACGAGAGACGACGTGCTGAGCTGCCAGCTTAGTGGAAGCTCTGCTCTGGGTGGAGAGCAGCCTCGCTTTG 79
CMC CTCGCTTTG 79
GTGACGCACAGTGCTGGGACCCTCCAGGAGCCCCGGGATTGAAGG ATG GTG GCG GCC GTC CTG CTG GGG 148
ATG GTG GCG GCC GTC CTG CTG GCC
L S W L C S P L G A L V L D F N N I R S
CTG AGC TGG CTC TGC TCT CCC CTG GGA GCT CTG GTC CTG GTC CTG
CTG AGC TGG CTC TGC TCT CCC CTG GGA GCT CTG GTC CTG GAC TTC AAC AAC ATC AGG AGC 208
S A D L H G A R K G S Q C L S D T D C N 48 TCT GCT GAC CTG CAT GGG GCC CGG AAG GGC TCA CAG TGC CTG TCT GAC ACG GAC TGC AAT 268
ONE CIG CAT GGG GCC CGG AAG GGC TCA CAG TGC CTG TCT GAG
T R K F C I O
T R K F C L Q P R D E K P F C A T C R G 68  ACC AGA AAG TTC TGC CTC CAG CCC CGC GAT GAG AAG CCG TTC TGT GCT ACA TGT CGT GGG 328
10 10 10 NON man
L R R R C Q R D A M C C P G T L C T
TTG CGG AGG AGG TGC CAG CGA GAT GCC ATG TGC CCT GGG ACA CTC TGT GTG AAC GAT 388
V C TGC ATG TGC TGC CCT GGG ACA CTC TGT GTG AAC CAM
V C T T M E D A T P I L E R O L D R
GTT TGT ACT ACG ATG GAA GAT GCA ACC CCA ATA TTA GAA AGG CAG CTT GAT GAG CAA GAT 448
G T H A E G T T
G T H A E G T T G H P V Q E N Q P K R K 128 P S I K K S Q T
GAA GGA ACA ACT GGG CAC CCA GTC CAG GAA AAC CAA GGG TO RESTER 128
P S I K K S O C P
P S I K K S Q G R K G Q E G E S C L R T 148  F D C G P C L T 768
AAG GGA CAA GAG GGA CAA AGE TI 148
F D C G P G L C C A R H F W T V
TTT GAC TGT GGC CCT GGA CTT TGC TGT GCT CGT CAT TTT TGG ACG AAA ATT TGT AAG CCA 628
V L L F C O AT
V L L E G Q V C S R R G H K D T A Q A P 188 E I F O R G D T C AGA AGA GGG CAT AAA GAC ACT GCT CAA GCT CCA 688
OGA CAG GTC TGC TCC AGA AGA GGG CAT AAA GAC AGA Q A P 188
E I F Q R C D C C
GAA ATC TTC CAG CGT TGC GAC TGT GGG GGT GT
TOT GGC CCT GGA CTA CTG TGT CGA ACC CTA T S 208
N R Q H A R L R V C Q K I E K L *
AAT CGG CAG CAT GCT CGA TTA AGA GTA TGC CAA AAA ATA GAA AAG CTA TAA  225 ATATTTCAAAATAAA
AMA ATA GAN AND CON - 225
ATATTTCAAAATAAAGAAGAATCCACATTGCAAAAAAAAA
848

CCGGACGCGTGGGCGCACGGTTTCGTGGGGACCCAGGCTTGCAAAGTGACGGTCATTTTCTTTC	
TO CANAGIGACGGT CATTTTCTTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	Tr. C.
M M A L G A A G A T R V F V A  V A A A L G C "	TCTT 79
THE GCT CTG GGC GCA GCG GGC ACC CGG GTC TERM COLD	М 1
V A A A L G G H P L	rg 14
GTA GCG GCG GCT CTC GGC GGC CAC CCT CTG CTG GGA GTG AGC GCC ACC TTG AAC TCG	
GCT CTC GGC GGC CAC CCT CTG CTG GGA CTC AGG AT L N S	V 3
L N C TG AAC TCG	GTT 20
L N S N A I K N L P P P P	GTT 200
AAT TOO AAC GOT ATO AAG AAC CTG CCC CCA CCC	· <b>~</b>
CTC AAT TCC AAC GCT ATC AAG AAC CTG CCC CCA CCG CTG GGC GGC GCT GCG GGG CAC	P 56
G S A V S A A P C T	CCA 260
GGC TCT GCA GTC AGC GCC GCG CCG CCC CCA ATC TO P G G N K V	
CCG GGA ATC CTG TAC CCG GGC GGG AAT AAC	T 76
I D N Y Q P Y P C A D	ACC 320
ATT GAC AAC TAC CAG CCG TAC CCG TGC GCA GAG GAC GAG GAG TGC GGC ACT GAT GAG T	
THE CCG TAC CCG TGC GCA GAG GAC GAG TGC GCG TGC	Y 96
C A S P T R G G D	AC 380
TGC GCT AGT CCC ACC CGC GGA GGG GAC GCA GGC GTG CTC CTC CTC ACC CGC GGA GGG GAC GCA GGC GTG CTC CTC CTC CTC CTC CTC CTC CTC	
TGC GCT AGT CCC ACC CGC GGA GGG GAC GCA GGC GTG CAA ATC TGT CTC GCC TGC AGG A	K 116
R R K R C M R H	AG 440
CGC CGA AND CGG TO M R H A M C C D G	110
AAA CGC TGC ATG CGT CAC GCT ATG TGC TGC GGG GGG	3 136
CGC CGA AAA CGC TGC ATG CGT CAC GCT ATG TGC TGC CCC GGG AAT TAC TGC AAA AAT GC	, T36
I C V S S D Q N H F R G E I D	A 500
ATA TGC GTG TCT TCT GAT CAA AAT CAT TTC CGA GGA GAA ATT GAG GAA ACC ATC ACT GA	
COA GGA GAA ATT GAG GAA ACC ATC ACT CA	156
S F G N D H S T L D G V C D	A 560
AGC TTT GGT AAT GAT CAT AGC ACC TTG GAT GGG TAT TCC AGA AGA ACC ACC TTG TCT TC	
GAT GGG TAT TCC AGA AGA ACC ACC TTG TCT TG	176
K M Y H T K G Q E G S V C L R S C	A 620
AAA ATG TAT CAC ACC AAA GGA CAA GAA GGT TCT GTT TGT CTC CGG TCA TCA GAC TGT GCC	
GAA GGT TCT GTT TGT CTC CGG TCA TCA CAC TGA	196
S G L C C A R H F W C	680
TCA GGA TTG TGT TGT GCT AGA CAG TTGT	
TCA GGA TTG TGT TGT GCT AGA CAC TTC TGG TCC AAG ATC TGT AAA CCT GTC CTG AAA GAA	216
G Q V C T K H R P V C	740
GGT CAA GTG TGT ACC AAG CAT AGG AGA AAA GGC TCT CAT GGA CTA GAA ATA TTC CAG CGT	
AAG CAT AGG AGA AAA GGC TCT CAT GGA CTA CAA	236
C Y C G E G L C G T	800
TGT TAC TGT GGA GAA GGT GGA	
GAA GGT CTG TCT TGC CGG ATA CAG AAA GAT CAG GAA GAT CAG	256
TGT TAC TGT GGA GAA GGT CTG TCT TGC CGG ATA CAG AAA GAT CAC CAT CAA GCC AGT AAT	860
TCT TCT AGG CTT CAG ATT	
TCT TCT AGG CTT CAC ACT TGT CAG AGA CAC TAA	267
ACCAGCTATCCAAAAMG	893
CAAAATGCAGTGAACTCCTTTTATATAGATGCTATCAAAAAGGCTATCAAAAAGGCTATCAAAAAGGCTATCAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGCTATCAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAGGATGCTATCAAAAAAAA	033
ACCAGCTATCCAAAATGCAGTGAACTCCTTTTATATAATAGATGCTATGAAAACCTTTTATGACCTTCATCAACTCAAT	972
CCTAAGGATATACAAGTTCTGTGGTTTCAGTTAAGCATTCCAATAACACCTTCCAAAAACCTGGAGTCTAAGAGCTTTG TTTCTTTATGGAACTCCCTCTCATTATGGAACTTCAATAACACCTTCCAAAAAACCTGGAGTCTAAGAGCTTTG	J. Z
TTTCTTTATCCALACTTCCAAAAACCTGGAGTCTAAGAGCTTTG	1051
TATGGAACTCCCCTGTGATTGCAGTAAATTACTGTATTCTCAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAATTACTGTAATTCTCAAAAATTACTGTAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAATTACTGTAAAAAATTACTGTAATTCTCAAAAATTACTGTAATTCTCAAAAAAAA	1031
TTTCTTTATGGAACTCCCCTGTGATTGCAGTAAATTACTGTATTGTAAATTCTCAGTGTGGCACTTACCTGTAAATGCA	1130
ATGAAACTTTTAATTATTTTTCTAAAGGTGCTGCAC IGCCTATTTTTCCTCTTGTTATGTAAATTTTTGTACACATTGA	**>0
TTGTTATCTTCTATGTAAATTTTTGTACACATTCA	1200
TOTAL CITICACTGA CAAAATATTCTATATTGAACTGAACTGAACTGA	1209
TTGTTATCTTGACTGACAAATATTCTATATTGAACTGAAGTAAATCATTTCAGCTTATAGTTCTTAAAAGCATAACCCT	1200
TTACCCCATTTNATTCTAGAGTCNAGAACGCAAGGATCTCTTGGAATGACAAATGATAGGTACCTAAAAATGTAACATGA	τ⊼88
TOTAL CICITIGGAATGACAAATGATAGGTACCTAAAATGTAACATG	1265
- INGTANCATGA	1367

# Figure 3B

AAATACTAGCTTATTTTCTGAAATGTACTATCTTAATGCTTAAATTATATTTCCCTTTAGGCTGTGATAGTTTTTGAAA TAAAATTTAACATTTAATATTATATT	
TAAAATTTAACATTTAATATCATGAAATGKTATAAGTAGACATAAAAAAAAAA	1446
CTAG	1525
	1529

### Figure 4

	: F			Г	R	v	G	D	v	_												
GA	A TI	'C G	C A	CG A	.GG	GTT	, GG(	אמע:	፤ የለጥ ፫	יים יי	H	S	_ F	) I	Ι <u>(</u>	) G	5	3	3	A	С	20
								J AG	JIA	1 16	C CA	C AG	T CC	C CA	C CA	A GG	A TO	A TO	CG G	CC	TGC	60
M	v	·	: F	2	R	v	v	v	-	_								•				00
AΤ	G GT	G TG	T CC	G A	GA .	AAA	AAG	AAC	i CC	ים בעתיי	ת ירטיים	K C	ם מס	G	M	G TG	C		•	S	T	40
										- 10	c ca	c co.	A GA	T GG	C AT	G TG	C TG	C CC	C A	3T	ACC	120
R	С	N	N	r (	G	I	С	I	P	v	т	F	c			T						
CG	CTG	CAA	T AA	T G	GC 2	ATC	TGT	ATC	CCA	GT.	ם אכיי	יב ר	ם א	ገ መጠረ ግ	num. T	T A AC	P	H		Ī	P	60
_												. 0.1	ı AG	C AI	C 112	A AC	CC	r ca	C A1	C	CCG	180
A	L	D	G	7	Г	R	H	R	D	R	N	н	G	н	v	s						
GCI	CIC	GA'	r GG	T A	CT (	CGG	CAC	AGA	GAT	CGA	AAC	CAC	GGT	יי רביים	፤ ጉጥአረ	S TC#	N	H	D	1	L	80
~		_														- 10	AA(	CA	r ga	C :	ITG	240
GGA	TYCYC	Q · CR	N	_ I		G	R	₽	H	T	K	М	s	н	T	ĸ	G	**	_		_	
GGA	166	CAC	AA'	ı. Cı	'A G	GA	AGA	CCA	CAC	ACT	AAG	ATG	TCA	CAT	` ATA	K AAA	CCC	ת ימים י	E,		G	100
D	D	C		_		_	_										. 000	CA.	. GA	A C	-GA	300
GAC	CCC	י דעבר	י ביים ה	K	3 m	S	S	Ď	C	I	E	G	F	C	С	A	R	н	F		La	
	-	100	. С17	1 CG	AT	CA	TCA	GAC	TGC	ATT	GAA	GGG	TTT	TGC	TGT	A GCT	CGT	CAT	 	, <sub>1</sub> ,	ייי אכיכי	120 360
Т	ĸ	т	C	K		D	7.7													- 1	·	360
ACC	AAA	ATC	TGC	מב י	A (	e Ca (	ראשה A	OTT CI	H	Q	G	E	V	C	T	ĸ	Q	R	к		ĸ	140
		_				CA (	316	CIC	CAT	CAG	GGG	GAA	GTC	TGT	ACC	K AAA	CAA	CGC	AAG	; A	AG	420
G	s	H	G	L	,	E	T	E	_	-	_	_										120
GGT	TCT	CAT	GGG	CTO	3 G/	AA A	ነ ነጥጥ	ጥጥር	ע ע	CCT	TO C	D ~	_C	A	K	G GGC	L	s	C	1	K	160
									<u> </u>	CGI	IGC	GAC	TGT	GCG	AAG	GGC	CTG	TCT	TGC	A	AA .	480
v	W	K	D	A	7	r	Y	s	s	ĸ	Δ	Ð				С						
GTA	TGG	AAA	GAT	GCC	: AC	CC I	AC '	TCC	TCC	AAA	GCC	אכיא	CTC	H Chm	V	_C	Q	K	I	•	٠ :	180
											-	AUA	CIC	CAT	GTG	TGT	CAG	AAA	ATT	TO	SA S	540
TCAC	CATI	GAG	SAAC	ATCA	TCA	TTA	'GCA	GACT	GTGA	AGTT	GTGT	'ATTT	'AATC	ייי מי:	' <b>ሕጥ</b> አር	'		. <b>.</b>				
ana.	ma a-									٠.				CALL	AIAG	CATG	GTGG	AAA	MAA	GGI	T e	519
CAGA	TGCA	GAAC	MATY	GCT	AAA	ATA	AGA/	AACG:	rgat.	AAGA	ATAT	AGAT	GATO	ACAA	ααα.	<b>ת</b> ת מ מ	***		~~~		_	
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# Figure 5

CTC	GAGG	CCAA	<b>AATT</b>	CGGC	ACGA	3GCC	GGC	rgtg	GTCT	AGCA'	raaa:	GGCG	GAGC	CCAG	AAGA	AGGG	iccc	GT 2	M ATG	1 77
G	Е	A	s		P		P		R	R	н	L	L	v		L	L	L	L	21
GGA	GAA	GCC	TCC	CCA	CCT	GCC	CCC			CGG	CAT	CTG	CTG	GTC	CTG	CTG	CTG	CTC	CTC	137
S	T	L	V	I	P	s	A	A	A	p		H	D	A	D	A	Q	E	S	41
TCT	ACC	CTG	GTG	ATC	CCC	TCC	GCT	GCA	GCT	CCT		CAT	GAT	GCT	GAC	GCC	CAA	GAG	AGC	197
S	L	G	L	T	G	L	Q	S	L	L	Q	G	F	S	R	L	F	L	K	61
TCC	TTG	GGT	CTC	ACA	GGC	CTC	CAG	AGC	CTA	CTC	CAA	GGC	TTC	AGC	CGA	CTT	TTC	CTG	AAA	257
G	N	L	L	R	G	I	D	S	L	F	S	A	P	M	D	F	R	G	L	81
GGT	AAC	CTG	CTT	CGG	GGC	ATA	GAC	AGC	TTA	TTC	TCT	GCC	CCC	ATG	GAC	TTC	CGG	GGC	CTC	317
P	G	N	Y	H	K	E	E	n	Q	E	H	Q	L	G	n	N	T	L	S	101
CCT	GGG	AAC	TAC	CAC	AAA	GAG	GAG	Aac	CAG	GAG	CAC	CAG	CTG	GGG	aac	AAC	ACC	CTC	TCC	377
s	H	L	Q	I	D	K	M	T	D		K	T	G	E	V	L	I	S	E	121
<b>A</b> GC	CAC	CTC	CAG	ATC	GAC	AAG	ATG	ACC	GAC		AAG	ACA	GGA	GAG	GTG	CTG	ATC	TCC	GAG	437
N	V	V	A	S	I	Q	P	A	E	G	S	F	E	G	D	L	K	V	CCC	141
AAT	GTG	GTG	GCA	TCC	ATT	CAA	CCA	GCG	GAG	GGG	AGC	TTC	GAG	GGT	GAT	TTG	AAG	GTA		497
r Agg	M ATG	E GAG	E GAG	K AAG	E GAG	A GCC	L CTG	V GTA	CCC		Q CAG	K AAG	A GCC	T ACG	D GAC	S AGC	F TTC	H CAC	T ACA	161 557
E GAA	L CTC	H CAT	P CCC	R CGG	V GTG	A GCC	F TTC	W TGG	I	I ATT	K AAG	L CTG	P CCA	R CGG	R CGG	r agg	S	H CAC	Q CAG	181 617
D	A	L	E	G	G	H	W	L	S	E	K	R	H	R	L	Q	A	I	R	201
GAT	GCC	CTG	GAG	GGC	GGC	CAC	TGG	CTC	AGC	GAG	AAG	CGA	CAC	CGC	CTG	CAG	GCC	ATC	CGG	677
D	G	L	R	K	G	T	H	K	D	V	L	E	e	G	T	E	S	S	S	221
GAT	GGA	CTC	CGC	AAG	GGG	ACC	CAC	AAG	GAC	GTC	CTA	GAA	gag	GGG	ACC	GAG	AGC	TCC	TCC	737
H	S	R	L	S	P	R	K	T	CAC	L	L	Y	I	L	R	P	S	R	Q	241
CAC	TCC	AGG	CTG	TCC	CCC	CGA	AAG	ACC		TTA	CTG	TAC	ATC	CTC	AGG	CCC	TCT	CGG	CAG	797
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rsp-2h rsp-3h rsp-4h ango59: msensus rsp-2h rsp-3h rsp-4h ango59 msensus rsp-2h rsp-3h rsp-4h ngo59: msensus	KKKKTK LISSL	PVPLV RRECT	L L L L L L L L L L L L L L L L L L L	C m E E E E E E E E E E E E E E E E E E	H G Q Q G G G G G G G G G G G G G G G G	V V V V V V V V V V V V V V V V V V V	RECEDENT ROTE	S I R I R I R I R I R I R I R I R I R I	E G RERESE	HRKKRK RK AR	L I I I I I I I I I I I I I I I I I I I	R		T W KI	VE	A (CS I S I L I S I V C	E P G G G G G G G G G G G G G G G G G G	C PLD1 ··· R	C A E II E II E II C A E I C A	R FF LF · · · · D	H Q Q Q D Q · · · · G	R (R	W L D P d L	K¥OOOOO ····L	GIAI AI A	G G G G G G G G G G G G G G G G G G G	320
rsp-2h rsp-3h rsp-4h ango59: msensus rsp-2h rsp-3h rsp-4h ango59 msensus rsp-2h rsp-3h rsp-4h ngo59: msensus	CCCCC LLSSLL V	· PPV PPV RRKQr · · · · E · · · ·	L L L L L L L L L L L L L L L L L L L	TE LL KKSK V	H G Q Q G G G G G G G G G G G G G G G G	V V V V V V V V V V V V V V V V V V V	RECEDENT ROTE	S I R I R I R I R I R I R I R I R I R I	E G RERESE	HRKKRK RK AR	L I I I I I I I I I I I I I I I I I I I	R		T W KI	VE	A (CS I S I L I S I V C	E P G G G G G G G G G G G G G G G G G G	C PLD1 ··· R	C A E II E II E II C A E I C A	R FF LF · · · · D	H Q Q Q D Q · · · · G	R (R	W L D P d L	K¥OOOOO ····L	GIAI AI A	G G G G G G G G G G G G G G G G G G G	320
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rsp-2h rsp-3h rsp-4h ango59: msensus rsp-2h rsp-3h rsp-4h ango59 msensus rsp-2h rsp-3h rsp-4h ngo59: msensus	CCCCC LLSSLL V	· PPV PPV RRKQr · · · · E · · · ·	L L L L L L L L L L L L L L L L L L L	TE LL KKSK V	H G Q Q G G G G G G G G G G G G G G G G	V V V V V V V V V V V V V V V V V V V	RECEDENT ROTE	S I R I R I R I R I R I R I R I R I R I	E G RERESE	HRKKRK RK AR	L I I I I I I I I I I I I I I I I I I I	R		T W KI	VE	A (CS I S I L I S I V C	E P G G G G G G G G G G G G G G G G G G	C PLD1 ··· R	C A E II E II E II C A E I C A	R FF LF · · · · D	H Q Q Q D Q · · · · G	R (R	W L D P d L	K¥OOOOO ····L	GIAI AI A	G G G G G G G G G G G G G G G G G G G	320

# The Human CRSP Family

CRD-1 CRD-2	CRD-1 CRD-2	CRD-1	CRD-1 CRD-2	
h-CRSP-1 (T59)	h-CRSP-2	h-CRSP-3	h-CRSP-4	h-CRSP-n

M Q R L G G I L L C T L  GAATTGGGCGGCGGCCAGCGCGGAACAAAC ATG CAG CGG CTC GGG GGT ATT TTG CTG TGT ACA CTG  14
L A A A V P T A P A P S P T V T W T P A 3 CTG GCG GCG GCG GCC ACT GCT CCT GCT CCT TCC CCG ACG GTC ACT TGG ACT CCG GCG 20
CTG GCG GCG GCG GTC CCC ACT GCT CCT GCT CCT TCC CCG ACG GTC ACT TGG ACT CCG GCG 20
E P G P A L N Y P Q E E A T L N E M F R 5
GAG CCG GGC CCA GCT CTC AAC TAC CCT CAG GAG GAA GCT ACG CTC AAT GAG ATG TTT CGA 26
E V E E L M E D T Q H K L R S A V E E M 7 GAG GTG GAG GAG CTG ATG GAA GAC ACT CAG CAC AAA CTG CGC AGT GCC GTG GAG GAG ATG 32
GAG GTG GAG GAG CTG ATG GAA GAC ACT CAG CAC AAA CTG CGC AGT GCC GTG GAG GAG ATG 32
E A E E A A A K T S S E V N L A S L P P 9 GAG GCG GAA GAA GCA GCT GCT AAA ACG TCC TCT GAG GTG AAC CTG GCA AGC TTA CCT CCC 38
GAG GCG GAA GAA GCA GCT GCT AAA ACG TCC TCT GAG GTG AAC CTG GCA AGC TTA CCT CCC 30
N Y H N E T S T E T R V G N N T V H V H 11 AAC TAT CAC AAT GAG ACC AGC ACG GAG ACC AGG GTG GGA AAT AAC ACA GTC CAT GTG CAC 44
AAC TAT CAC AAT GAG ACC AGC ACG GAG ACC AGG GIG GGA AAT AAC ACA GIC CAT GIG CAC
Q E V H K I T N N Q S G Q V V F S E T V 13 CAG GAA GTT CAC AAG ATA ACC AAC AAC CAG AGT GGA CAG GTG GTC TTT TCT GAG ACA GTC 50
CAG GAA GIT CAC AAG ATA ACC AAC AAC CAG AGI GGA CAG GIG GIG TIT TOT GAG ACT GIG
I T S V G D E E G K R S H E C I I D E D 15 ATT ACA TCT GTA GGG GAT GAA GAA GGC AAG AGG AGC CAT GAA TGT ATC ATT GAT GAA GAC 56
C G P T R Y C Q F S S F K Y T C Q P C R 17 TGT GGG CCC ACC AGG TAC TGC CAG TTC TCC AGC TTC AAG TAC ACC TGC CAG CCA TGC CGG 62
D Q Q M L C T R D S E C C G D Q L C A W 19 GAC CAG CAG ATG CTA TGC ACC CGA GAC AGT GAG TGC TGT GGA GAC CAG CTG TGT GCC TGG 68
G H C T Q K A T K G G N G T I C D N Q R 21 GGT CAC TGC ACC CAA AAG GCC ACC AAA GGT GGC AAT GGG ACC ATC TGT GAC AAC CAG AGG 74
D C Q P G L C C A F Q R G L L F P V C T 23 GAT TGC CAG CCT GGC CTG TGT TGT GCC TTC CAA AGA GGC CTG CTG TTC CCC GTG TGC ACA 80
P L P V E G E L C H D P T S Q L L D L I 25 CCC CTG CCC GTG GAG GGA GAG CTC TGC CAT GAC CCC ACC AGC CAG CTG CTG GAT CTC ATC 86
T W E L E P E G A L D R C P C A S G L L 27  ACC TGG GAA CTG GAG CCT GAA GGA GCT TTG GAC CGA TGC CCC TGC GCC AGT GGC CTC CTA 92
C Q P H S H S L V Y M C K P A F V G S H 29 TGC CAG CCA CAC AGC CAC AGT CTG GTG TAC ATG TGC AAG CCA GCC TTC GTG GGC AGC CAT 98
DHSEESOLPREAPDEYEDVG 31
D H S E E S Q L P R E A P D E Y E D V G 31 GAC CAC AGT GAG GAG AGC CAG CTG CCC AGG GAG GCC CCG GAT GAG TAC GAA GAT GTT GGC 104
FIGEVROELEDLERSLAQEM 33
TTC ATA GGG GAA GTG CGC CAG GAG CTG GAA GAC CTG GAG CGG AGC CTA GCC CAG GAG ATG 110



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ATTAATTTGCAGGAAGTATACTTGGCTAATTGTAGGGCTAGGATTGTGAAAGCCAGTGCTCGGAGTGCAGTTCGTGTAA 1949  GGAAAGCCTTTCTCAGTCACACCGAGAAGTCACAACCAAGCCAGGTTGTGTAGAAATTTGCAAAGTCGCTTAGCAACAAT 2028  GAAGGCTGGGCTGGATGTCAGGCCTCAGATGACGGTTTCAGGTGCCAGGAACTATTACCATTCTGTATCTATC	TO CARCCCCATACCAGCCTCTGTGCCAGCCAGAGAGAGAGAGAGA	
GGAAAGCCTTTCTCAGTCACACCGAGAAGTCACAACCAAGCCAGGTTGTGAATGAA	TAGCAGTGTGGTGGACACTGTCTTCCACCGACTGCTTCAATGTCAGGTCAGGCTGACTTGCATGTCCCTCTAACGTTCG	1870
GAAGGCTGGGCTGGATGTCAGGCCTCAGATGACGGTTTCAGGTGCCAGGAACTATTACCATTCTGTATCTATC	ATTAATTTGCAGGAAGTATACTTGGCTAATTGTAGGGCTAGGATTGTCAATGCACTGCAGGTGCAGTTCGTGTAA	1949
TATTAAAATTGAAAGTTGCACACATTTGTATAAGCATGCCTTTCTCCTGAGTTTTAAATTATATGTATACACAAACATG 2265 TGGCCCTCAAAGATCATGCACAAACCACTACTCTTTGCTAATTCTTGGACTTTTCTCTTTGATTTTCAATAAATA	CACAGAGAGTCACAACCAAGCCAGGTTGTCTCTCTCTCTC	2028
TGGCCCTCAAAGATCATGCACAAACCACTACTCTTTGCTAATTCTTGGACTTTTCTCTTTGATTTTCAATAAATA	THE PROPERTY OF THE PROPERTY O	2107
TCCCCTTCATGCAAAAAAAAAAAAAAAGGGCGGCCGC	THE INTERIOR OF THE PROPERTY O	2186
	I MCCAC I ACTCTTTGCTAATTCTTGGACTTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT	
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